

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

23493

7590

06/23/2004

SUGHRUE MION, PLLC 401 Castro Street, Ste 220 Mountain View, CA 94041-2007

EXAMINER			
VEILLARD, JACQUES			
ART UNIT	PAPER NUMBER		
2175	21		

**DATE MAILED: 06/23/2004** 

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/220,293	12/23/1998	WILLIAM J. BAER	CA1028	3693

TITLE OF INVENTION: METHOD AND APPARATUS FOR CONFIGURABLE MAPPING BETWEEN DATA STORES AND DATA STRUCTURES AND A GENERALIZED CLIENT DATA MODEL USING HETEROGENEOUS, SPECIALIZED STORAGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE TOTAL FEE(S) DUE		DATE DUE	
nonprovisional	NO	\$1330	\$0	\$1330	09/23/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

23493

7590

06/23/2004

SUGHRUE MION, PLLC 401 Castro Street, Ste 220 Mountain View, CA 94041-2007 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name (Signature) (Date)

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
09/220.293	12/23/1998	WILLIAM J. BAER	CA1028	3693	

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$0	\$1330	09/23/2004
EXAM	MINER	ART UN	IT	CLASS-SUBCLASS		
VEILLARD	), JACQUES	2175		707-104000	•	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		names of agents Of firm (hav agent) an	inting on the patent front page, f up to 3 registered patent at R, alternatively, (2) the name of ing as a member a registered at the names of up to 2 register or agents. If no name is listed inted.	torneys or 1 of a single attorney or 2 ered patent		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee A check in the amount of the fee(s) is enclosed ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). ☐ Advance Order - # of Copies \_ Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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SUGHRUE MION, PLLC			VEILLARD	VEILLARD, JACQUES		
401 Castro Street, Ste 220 Mountain View, CA 94041-2007	ART UNIT		PAPER NUMBER			
			2175	21		
			DATE MAILED: 06/23/200	4		

## Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/220,293	BAER ET AL.
Notice of Allowability	Examiner	Art Unit
	Jacques Veillard	2175
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subjection.	application. If not included ion will be mailed in due course. THIS
1. X This communication is responsive to 6/15/2004.		
2. The allowed claim(s) is/are <u>1-31</u> .		
3. $\boxtimes$ The drawings filed on <u>23 December 1998</u> are accepted by	the Examiner.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner' Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the stacked Examiner's comment regarding REQUIREMENT</li> </ol>	son's Patent Drawing Review (PT . s Amendment / Comment or in the .84(c)) should be written on the dra the header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	e Office action of wings in the front (not the back) of 21(d). L must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date</li></ul>	6.  Interview Summa Paper No./Mail [ 08), 7.  Examiner's Amer	Date

Application/Control Number: 09/220,293

Art Unit: 2175

#### **DETAILED ACTION**

- 1. This action is responsive to the Applicant's communication filed on 6/15/2004.
- 2. Claims 1-31 are pending and presented for examination.
- 3. Claims 1, 10, 17, and 24 are the independent claims. Other claims are the dependent.

#### Allowable Subject Matter

- 4. Claims 1-31 are allowed over the prior art of record.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding the independent claims 1, 10, 17 and 24, Applicant's three-layered middleware approach to heterogeneous database management in a distributed database asset management system, where at least one of the client adapter and the schema adapter for mapping the assets to the data stored in the data store and for transferring the data to from and from the data store to methods invoked in the at least one client adapter of the client application are flexibly adaptable as embodied in the cited independent claims 1, 8, 15, and 22 above, in context with the other limitation of the claims and as further described in the applicant's specification on page 7, lines 1-26, page 8, line 1 through page 11, line 33 was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

The dependent claims 2-9, 11-16, 18-23, and 25-31, being further limiting to the independent claims 1, 10, 17, and 24, definite and enabled by the specification are also allowed.

Application/Control Number: 09/220,293

Art Unit: 2175

The closest prior art Mullins (U. S. Pat. No. 5,857,197) discloses a system for accessing a data store as object from an object application wherein the accessed data store could be either an object data store or a non-object data store. Even though Mullins discloses a data store schema and an adapter abstraction layer, Mullins fails to teach a system where at least one of the client adapter and the schema adapter for mapping the assets to the data stored in the data store and for transferring the data to from and from the data store as recited in the applicant's independent claims 1, 10, 17, and 24. The closest prior fails to anticipate or render Applicant's limitations above obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Other Prior Art Made Of Record

6. Andrade et al. U. S. Pat No. 5,265,250,

Jacobson et al. U. S. Pat No. 5,440,744,

Atsatt et al. U. S. Pat. No. 5,504,892, and

Greef et al. U. S. Pat. No. 6,125,364.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any response to this action should be mail to:

Application/Control Number: 09/220,293

Art Unit: 2175

Commissioner of Patent and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 746-7239 (for formal communication intended for entry)

Or:

(703) 746-7240 (for informal of draft communications, please label "PROPOSED" or "DRAFT")

Hand - delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington. VA, Fourth Floor Lobby (Receptionist Telephone No. (703) 305-3900).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques Veillard whose telephone number is (703) 305-7094. The examiner can normally be reached Monday through Friday from 9:30 AM to 4: 30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached on (703) 305-3830. The fax phone number for this group is (703) 308-5403.

CHARLES RONES
PRIMARY EXAMINER

J. W

Jacques Veillard
Patent Examiner TC 2100

June 16, 2004

	Application No.	Applicant(s)
Interview Summary	09/220,293	BAER ET AL.
interview Summary	Examiner	Art Unit
	Jacques Veillard	2175
All participants (applicant, applicant's representative, PTO	personnel):	
(1) Frank L. Bernstein(Reg. No. 31,484.	(3)	
(2) <u>Jacques Veillard</u> .	(4)	
Date of Interview: <u>14 June 2004</u> .		
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant 2	2)⊠ applicant's representative	e]
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e) <u></u> No.	
Claim(s) discussed: <u>NONE</u> .		
Identification of prior art discussed: <u>NONE</u> .		
Agreement with respect to the claims f) was reached. g	)∏ was not reached. h)⊠ N	I/A.
Substance of Interview including description of the general reached, or any other comments: <u>Attorney Bernstein, on a Examiner to resubmit the "TERMINAL DISCLAIMER" filed 6,366,916</u> .	telephone interview on 6/14/2	004, agrees with the
(A fuller description, if necessary, and a copy of the amend allowable, if available, must be attached. Also, where no callowable is available, a summary thereof must be attached	opy of the amendments that v	
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE A INTERVIEW. (See MPEP Section 713.04). If a reply to the GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR FORM, WHICHEVER IS LATER, TO FILE A STATEMENT Summary of Record of Interview requirements on reverse s	last Office action has already THE MAILING DATE OF THI OF THE SUBSTANCE OF TH	been filed, APPLICANT IS S INTERVIEW SUMMARY
	·	
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.		Lellard ature, if required

U.S. Patent and Trademark Office PTOL-413 (Rev. 04-03)